RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/550,102_

Source: _PCT/10_

Date Processed by STIC: _10/3?/05_

ENTERED

Raw Sequence Listing before editing
(for reference only)

```
         RAW SEQUENCE LISTING                    DATE: 10/03/2005
         PATENT APPLICATION:  US/10/550,102      TIME: 14:34:12

         Input Set : A:\PTO.KD.txt
         Output Set: N:\CRF4\10032005\J550102.raw

    3 <110> APPLICANT: Pharmadesign, Inc.
    5 <120> TITLE OF INVENTION: Low Molecule Polypeptide for Active Channel Blocker
    7 <130> FILE REFERENCE: P03-0030PCT
C-->  9 <140> CURRENT APPLICATION NUMBER: US/10/550,102
C--> 10 <141> CURRENT FILING DATE: 2005-09-21
   12 <150> PRIOR APPLICATION NUMBER: 2003-085666
   13 <151> PRIOR FILING DATE: 2003-03-26
   15 <160> NUMBER OF SEQ ID NOS: 17
   17 <170> SOFTWARE: PatentIn Ver. 2.1
   19 <210> SEQ ID NO: 1
   20 <211> LENGTH: 10
   21 <212> TYPE: PRT
   22 <213> ORGANISM: Artificial Sequence
   24 <220> FEATURE:
   25 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
   26       Polypeptide
   28 <400> SEQUENCE: 1
   29 Trp Lys Cys Asn Pro Asn Asp Asp Lys Cys
   30   1               5                 10
   33 <210> SEQ ID NO: 2
   34 <211> LENGTH: 8
   35 <212> TYPE: PRT
   36 <213> ORGANISM: Artificial Sequence
   38 <220> FEATURE:
   39 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
   40       Polypeptide
   42 <400> SEQUENCE: 2
   43 Cys Ala Arg Pro Lys Leu Lys Cys
   44   1               5
   47 <210> SEQ ID NO: 3
   48 <211> LENGTH: 17
   49 <212> TYPE: PRT
   50 <213> ORGANISM: Artificial Sequence
   52 <220> FEATURE:
   53 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
   54       Polypeptide
   56 <400> SEQUENCE: 3
   57 Trp Lys Cys Asn Pro Asn Asp Asp Lys Ala Ala Arg Pro Lys Leu Lys
   58   1               5                 10                  15
   60 Cys
   64 <210> SEQ ID NO: 4
   65 <211> LENGTH: 35
   66 <212> TYPE: PRT
```

Does Not Comply
Corrected Diskette Needr

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67 <213> ORGANISM: Grammostola spatulata
69 <400> SEQUENCE: 4
70 Gly Cys Leu Glu Phe Trp Trp Lys Cys Asn Pro Asn Asp Asp Lys Cys
71  1               5                   10                  15
73 Cys Arg Pro Lys Leu Lys Cys Ser Lys Leu Phe Lys Leu Cys Asn Phe
74              20                  25                  30
76 Ser Ser Gly
77          35
80 <210> SEQ ID NO: 5
81 <211> LENGTH: 42
82 <212> TYPE: PRT
83 <213> ORGANISM: Atrax robustus
85 <400> SEQUENCE: 5
86 Cys Ala Lys Lys Arg Asn Trp Cys Gly Lys Asn Glu Asp Cys Cys Cys
87  1               5                   10                  15
89 Pro Met Lys Cys Ile Tyr Ala Trp Tyr Asn Gln Gln Gly Ser Cys Gln
90              20                  25                  30
92 Thr Thr Ile Thr Gly Leu Phe Lys Lys Cys
93          35              40
96 <210> SEQ ID NO: 6
97 <211> LENGTH: 42
98 <212> TYPE: PRT
99 <213> ORGANISM: Hadronyche versuta
101 <400> SEQUENCE: 6
102 Cys Ala Lys Lys Arg Asn Trp Cys Gly Lys Thr Glu Asp Cys Cys Cys
103  1               5                   10                  15
105 Pro Met Lys Cys Val Tyr Ala Trp Tyr Asn Glu Gln Gly Ser Cys Gln
106              20                  25                  30
108 Ser Thr Ile Ser Ala Leu Trp Lys Lys Cys
109          35              40
112 <210> SEQ ID NO: 7
113 <211> LENGTH: 30
114 <212> TYPE: PRT
115 <213> ORGANISM: Heteropodidae veratoria
117 <400> SEQUENCE: 7
118 Asp Asp Cys Gly Lys Leu Phe Ser Gly Cys Asp Thr Asn Ala Asp Cys
119  1               5                   10                  15
121 Cys Glu Gly Tyr Val Cys Arg Leu Trp Cys Lys Leu Asp Trp
122              20                  25                  30
125 <210> SEQ ID NO: 8
126 <211> LENGTH: 32
127 <212> TYPE: PRT
128 <213> ORGANISM: Selenocosmia huwena
130 <400> SEQUENCE: 8
131 Gly Cys Leu Gly Asp Lys Cys Asp Tyr Asn Asn Gly Cys Cys Ser Gly
132  1               5                   10                  15
134 Tyr Val Cys Ser Arg Thr Trp Lys Trp Cys Val Leu Ala Gly Pro Trp
135              20                  25                  30
141 <210> SEQ ID NO: 9
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142 <211> LENGTH: 37
143 <212> TYPE: PRT
144 <213> ORGANISM: Agelenopsis aperta
146 <400> SEQUENCE: 9
147 Ala Cys Val Gly Glu Asn Gln Gln Cys Ala Asp Trp Ala Gly Pro His
148  1               5                  10                  15
150 Cys Cys Asp Gly Tyr Tyr Cys Thr Cys Arg Tyr Phe Pro Lys Cys Ile
151             20                  25                  30
153 Cys Arg Asn Asn Asn
154          35
157 <210> SEQ ID NO: 10
158 <211> LENGTH: 37
159 <212> TYPE: PRT
160 <213> ORGANISM: Agelenopsis aperta
162 <400> SEQUENCE: 10
163 Ala Cys Val Gly Glu Asn Gln Gln Cys Ala Asp Trp Ala Gly Pro His
164  1               5                  10                  15
166 Cys Cys Asp Gly Tyr Tyr Cys Thr Cys Arg Tyr Phe Pro Lys Cys Ile
167             20                  25                  30
169 Cys Arg Asn Asn Asn
170          35
173 <210> SEQ ID NO: 11
174 <211> LENGTH: 37
175 <212> TYPE: PRT
176 <213> ORGANISM: Agelenopsis aperta
178 <220> FEATURE:
179 <221> NAME/KEY: UNSURE
180 <222> LOCATION: (37)
181 <223> OTHER INFORMATION: Xaa represents unknown amino acid residue
183 <400> SEQUENCE: 11
184 Glu Cys Val Pro Glu Asn Gly His Cys Arg Asp Trp Tyr Asp Glu Cys
185  1               5                  10                  15
187 Cys Glu Gly Phe Tyr Cys Ser Cys Arg Gln Pro Pro Lys Cys Ile Cys
188             20                  25                  30
W--> 190 Arg Asn Asn Asn Xaa
191          35
194 <210> SEQ ID NO: 12
195 <211> LENGTH: 33
196 <212> TYPE: PRT
197 <213> ORGANISM: Selenocosmia huwena
199 <400> SEQUENCE: 12
200 Ala Cys Lys Gly Val Phe Asp Ala Cys Thr Pro Gly Lys Asn Glu Cys
201  1               5                  10                  15
203 Cys Pro Asn Arg Val Cys Ser Asp Lys His Lys Trp Cys Lys Trp Lys
204             20                  25                  30
206 Leu
210 <210> SEQ ID NO: 13
211 <211> LENGTH: 37
212 <212> TYPE: PRT
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RAW SEQUENCE LISTING   DATE: 10/03/2005
PATENT APPLICATION: US/10/550,102   TIME: 14:34:12

        Input Set : A:\PTO.KD.txt
        Output Set: N:\CRF4\10032005\J550102.raw

213 <213> ORGANISM: Selenocosmia huwena
215 <400> SEQUENCE: 13
216 Leu Phe Glu Cys Ser Phe Ser Cys Glu Ile Glu Lys Glu Gly Asp Lys
217 1   5   10   15
219 Pro Cys Lys Lys Lys Lys Cys Lys Gly Gly Trp Lys Cys Lys Phe Asn
220   20   25   30 .
222 Met Cys Val Lys Val
223   35
226 <210> SEQ ID NO: 14
227 <211> LENGTH: 17
228 <212> TYPE: PRT
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
233   Polypeptide
235 <400> SEQUENCE: 14
236 Gly Cys Leu Glu Phe Trp Trp Lys Ala Asn Pro Asn Asp Asp Lys Ala
237 1   5   10   15
239 Cys
243 <210> SEQ ID NO: 15
244 <211> LENGTH: 15
245 <212> TYPE: PRT
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
250   Polypeptide
252 <400> SEQUENCE: 15
253 Cys Ala Arg Pro Lys Leu Lys Ala Ser Lys Leu Phe Lys Leu Cys
254 1   5   10   15 .
257 <210> SEQ ID NO: 16
258 <211> LENGTH: 8
259 <212> TYPE: PRT
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
264   Polypeptide
266 <400> SEQUENCE: 16
267 Cys Ala Ala Pro Lys Leu Lys Cys
268 1   5
271 <210> SEQ ID NO: 17
272 <211> LENGTH: 8
273 <212> TYPE: PRT
274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
278   Polypeptide
280 <400> SEQUENCE: 17
281 Cys Ala Arg Pro Lys Leu Ala Cys
282 . 1   5 .

RAW SEQUENCE LISTING   DATE: 10/03/2005
PATENT APPLICATION: US/10/550,102   TIME: 14:34:12

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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/03/2005
PATENT APPLICATION: US/10/550,102   TIME: 14:34:13

Input Set : **A:\PTO.KD.txt**
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos. 37

VERIFICATION SUMMARY   DATE: 10/03/2005
PATENT APPLICATION: **US/10/550,102**   TIME: 14:34:13

Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\10032005\J550102.raw**

L:9 M:270 C: Current Application Number differs, Replaced Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:32